

Appendix 7: Pooled results for Mirena® v first generation endometrial destruction [posted as supplied by author]

	Time point	Trials (no.)	WMD (95%CI) <sup>\$</sup>	OR (95%CI) <sup>#</sup>	P-value	Hetero (p)/ I <sup>2</sup> (%)
<b>Proportion amenorrhoea</b>	12 months	3 (177)	-	0.84 (0.43 to 1.63)	0.6	0.3/ 11
	2 years	1 (44)	-	0.68 (0.19 to 2.45)	0.6	-
	3 years	1 (41)	-	0.68 (0.19 to 2.38)	0.5	-
<b>Proportion with heavy bleeding</b>	12 months	2 (125)	-	1.13 (0.33 to 3.86)	0.9	0.3/ 0
	3 years	1 (41)	-	1.84 (0.29 to 11.7)	0.5	-
	6 months	1 (68)	-28 (-57 to 1.4)	-	0.06	-
<b>Bleeding score (change)</b>	12 months	3 (168)	-39 (-66 to -12)	-	0.004	0.6/ 0
	2 years	1 (44)	41 (-189 to 271)	-	0.7	-
	3 years	1 (41)	37 (-202 to 276)	-	0.8	-
<b>SF36 General health (absolute)</b>		1 (62)	-6.2 (-14.6 to 2.2)	-	0.2	-
<b>SF36 Physical function (absolute)</b>		1 (62)	-1.2 (-12.7 to 10.3)	-	0.8	-
<b>SF36 Role physical (absolute)</b>		1 (62)	-1.7 (-19.0 to 15.6)	-	0.9	-
<b>SF36 Role emotional (absolute)</b>		1 (62)	-11.1 (-29.1 to 6.9)	-	0.2	-
<b>SF36 Mental health (absolute)</b>		1 (62)	0.5 (-9.2 to 10.2)	-	0.9	-
<b>SF36 Social function (absolute)</b>		1 (62)	0.1 (-11.5 to 11.7)	-	1.0	-
<b>SF36 Vitality (absolute)</b>		1 (62)	1.5 (-7.3 to 10.3)	-	0.7	-
<b>SF36 Pain (absolute)</b>		1 (62)	-11.4 (-24.2 to 1.4)	-	0.08	-
<b>Hysterectomy after endometrial destruction/Mirena</b>	12 months	1 (70)	-	7.39 (0.15 to 372)	0.3	-
		Trials	Freq			
<b>Discontinued Mirena</b>	12 months	3	12/95 (13%)			
	2 years	1	8/30 (27%)			
	3 years	1	9/30 (30%)			
<b>Endometrial destruction after Mirena</b>	12 months	1	4/30 (13%)			
<b>Hysterectomy after Mirena</b>	12 months	1	0/35 (0%)			
<b>Peri-procedure complications:</b>		Trials	Freq (1 <sup>st</sup> gen: max 95, Mirena: max 95)	OR (95%CI) <sup>#</sup>	P-value	Hetero (p)/ I <sup>2</sup> (%)
- Uterine perforation (1 <sup>st</sup> gen, Mirena)		5	0, 0	-	-	-
- Cervical laceration (1 <sup>st</sup> gen, Mirena)		5	0, 0	-	-	-
- Anaesthesia problems (1 <sup>st</sup> gen)		5	0	-	-	-
- Excessive bleeding (1 <sup>st</sup> gen)		5	0	-	-	-
- Fluid overload (1 <sup>st</sup> gen)		5	0	-	-	-
- Visceral damage (1 <sup>st</sup> gen)		5	0	-	-	-
- Procedure abandoned (1 <sup>st</sup> gen)		5	0	-	-	-
- Converted to hysterectomy (1 <sup>st</sup> gen)		5	0	-	-	-
- Failed to insert (Mirena)		5	0	-	-	-
<b>Further complications (&lt;1 month):</b>						
- Urinary tract infection (1 <sup>st</sup> gen)		5	0	-	-	-
- DVT (1 <sup>st</sup> gen)		5	0	-	-	-
- Further bleeding (1 <sup>st</sup> gen)		5	7	-	-	-
- Sepsis (1 <sup>st</sup> gen)		5	0	-	-	-
- Pyrexia (1 <sup>st</sup> gen)		5	0	-	-	-
- Endometriosis (1 <sup>st</sup> gen)		5	2	-	-	-
- Haematoma (1 <sup>st</sup> gen)		5	3	-	-	-
- Abdominal pain (1 <sup>st</sup> gen)		5	4	-	-	-
- Foul discharge (1 <sup>st</sup> gen)		5	0	-	-	-
- Visceral damage (1 <sup>st</sup> gen)		5	0	-	-	-
- Infection (Mirena)		5	0	-	-	-
- Expelled/migrated (Mirena)		5	2	-	-	-
- Removed before 3 months (Mirena)		5	4	-	-	-

<sup>\$</sup><0 Favours first generation endometrial destruction, >0 Mirena<sup>®</sup>

<sup>#</sup><1 Favours first generation endometrial destruction, >1 Mirena<sup>®</sup>